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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently amended) A nematicidal composition comprising:
- (a) an effective amount of a compound having the formula



wherein:

 R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having <u>single bonds between</u> <u>carbons except for</u> a *cis* or *trans* double bond between the 9th and 10th carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and a substituted or unsubstituted C1-C2 carbon chain: and

- (b) an aqueous surfactant.
- 2-3. (Canceled)

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4. (Previously presented) The nematicidal composition of claim 1 wherein R₁ is a C1-C5 substituted or unsubstituted carbon chain, wherein the substitutents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and an unsubstituted C1-C2 carbon chain.

- 5. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of one or both of R₁ and R₂ is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, and epoxy.
- 6. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of one or both of R_1 and R_2 is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, and amino.
- 7. (Previously presented) The nematicidal composition of claim 1 wherein $R_{\rm I}$ is a substituted C1 methyl.
- 8. (Previously presented) The nematicidal composition of claim 1 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.
- 9. (Previously presented) The nematicidal composition of claim 1 wherein R₂ is a C15-C19 substituted or unsubstituted carbon chain having a cis or trans double bond between the 9th and 10th carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and an unsubstituted C1-C2 carbon chain.

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10. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of R2 is substituted and the substituents are selected from the group consisting of: hydroxy, oxo, halogen, amino, cyano, azido, and epoxy.

- 11. (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of R2 is substituted and the substituents are selected from the group consisting of: hydroxy, oxo, halogen, azido, and amino.
- (Previously presented) The nematicidal composition of claim 1 wherein the C1-C2 carbon chain of R₂ is singly substituted.
 - 13-14. (Canceled)
- 15. (Previously presented) The nematicidal composition of claim 1 wherein R_2 is substituted only at one or both of 12^{th} and 13^{th} carbons counting from the carbonyl (C=O) carbon.
- 16. (Previously presented) The nematicidal composition of claim 15 wherein R_2 is substituted only at the 12^{th} carbon counting from the carbonyl (C=O) carbon.
- 17. (Previously presented) The nematicidal composition of claim 15 wherein R_2 is substituted only at the 13^{th} carbon counting from the carbonyl (C=O) carbon.
- 18. (Previously presented) The nematicidal composition of claim 15 wherein within R_2 the substituents are polar and are selected from the group consisting of: hydroxy, oxo, epoxy, halogen, amino, eyano and azido.

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19. (Previously presented) The nematicidal composition of claim 15 wherein within R₂ the substituents are hydrogen bond acceptors and are selected from the group consisting of: hydroxy, oxo, epoxy, amino, evano and azido.

- 20. (Previously presented) The nematicidal composition of claim 15 wherein within R₂ the substituents are selected from the group consisting of: hydroxy, oxo and epoxy.
 - 21. (Previously presented) A nematicidal composition comprising:
- (a) an ester of a compound selected from the group consisting of: ricinoleic acid, ricinelaidic acid, 12-oxo-9(Z)-octadecenoic acid, 12-oxo-9(E)-octadecenoic acid, (12,13)-epoxytrans-9-octadecenoic acid and vernolic acid; and
 - (b) an aqueous surfactant.
- 22. (Previously presented) The nematicidal composition of claim 1 or claim 21 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, Span 20, Span 40, Span 80, Span 85, Tween 20, Tween 40, Tween 85, Triton X 100, Makon 10, Igepal CO 630, Brij 35, Brij 97, Tergitol TMN 6, Dowfax 3B2, Physan and Toximul TA 15.
- 23. (Previously presented) The nematicidal composition of claim 1 or claim 21 wherein the composition further comprises: (c) a permeation enhancer.
- 24. (Previously presented) The nematicidal composition of claim 23 wherein the permeation enhancer is a cyclodextrin.
- 25. (Previously presented) The nematicidal composition of claim 1 or claim 21 where the composition further comprises:
 - (c) a co-solvent.

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26. (Previously presented) The nematicidal composition of claim 25 wherein the co-solvent is selected from the group consisting of: isopropanol, acetone, 1,2-propanediol, a petroleum based-oil and a mineral oil.

- 27. (Previously presented) The nematicidal composition of claim 1 or claim 21 further comprising a nematicide selected from the group consisting of: avenmeetins, milbemycin, aldicarb, oxamyl, fenamiphos, fosthiazate and metam sodium.
- (Previously presented) The nematicidal composition of claim 1 or claim 21 further comprising an inhibitor of oxidation.
- 29. (Previously presented) The nematicidal composition of claim 28 wherein the inhibitor of oxidation is selected from the group consisting of: butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT).
- 30. (Currently amended) The nematicidal composition of claim 1 wherein the composition comprises at least two different compounds having the formula

wherein:

 R_t = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

 R_2 = a C15-C19 substituted or unsubstituted carbon chain having <u>single bonds between carbons except for</u> a *cis* or *trans* double bond between the 9th and 10th carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12th and 13th carbons counting

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from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12^{th} and 13^{th} carbons and at least one substituent at one or both of the 12^{th} and 13^{th} carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, axido, cyclopropane, cyclopropene, epoxy and a substituted or unsubstituted C1-C2 carbon chain.

- 31. (Currently amended) A method for control of unwanted nematodes, the method comprising administering to a vertebrate, a plant, a seed or soil a composition comprising:
 - (a) a compound having the formula

wherein:

 R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

 R_2 = a C15-C19 substituted or unsubstituted carbon chain having <u>single bonds between carbons except for</u> a eis or trans double bond between the 9^{th} and 10^{th} carbons counting from the carbonyl (C=O) carbon and either; (i) a triple bond between the 12^{th} and 13^{th} carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12^{th} and 13^{th} carbons and at least one substituent at one or both of the 12^{th} and 13^{th} carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, cyclopropene, epoxy and a substituted or unsubstituted C1-C2 carbon chain; and

(b) an aqueous surfactant.

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32-33. (Canceled)

34. (Previously presented) The method of claim 31 wherein R₁ is a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, balogen, amino, evano, evelopropane, epoxy and an unsubstituted C1-C2 carbon chain.

- 35. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of one or both of R₁ and R₂ is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, and epoxy.
- 36. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of one or both of R_1 and R_2 is substituted and the substituents are selected from the group consisting of: hydroxy, halogen, and amino.
- 37. (Previously presented) The method of claim 31 wherein R_1 is a substituted C1 methyl.
- 38. (Previously presented) The method of claim 31 wherein $R_{\rm I}$ is a C1-C2 substituted or unsubstituted carbon chain.
- 39. (Currently amended) The method of claim 31 wherein R₂ is a C15-C19 substituted or unsubstituted carbon chain having <u>single bonds between carbons except for a cis</u> or trans double bond between the 9th and 10th carbons counting from the carbonyl (C=O) carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl (C=O) carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of hydroxy, oxo, halogen, amino, cyano, azido, cyclopropane, evelopropene, epoxy and an unsubstituted C1-C2 carbon chain.

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40. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of R_2 is substituted and the substituents are selected from the group consisting of: hydroxy, ∞x_0 ,

halogen, amino, cyano, azido, and epoxy.

41. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of

 R_2 is substituted and the substituents are selected from the group consisting of: hydroxy, oxo,

halogen, azido, and amino.

42. (Previously presented) The method of claim 31 wherein the C1-C2 carbon chain of

R₂ is singly substituted.

43-44. (Canceled)

45. (Previously presented) The method of claim 31 wherein R₇ is substituted only at one

or both of 12th and 13th carbons counting from the carbonyl (C=O) carbon.

46. (Previously presented) The method of claim 45 wherein R2 is substituted only at the

 12^{th} carbon counting from the carbonyl (C=O) carbon.

47. (Previously presented) The method of claim 45 wherein R2 is substituted only at the

 13^{th} carbon counting from the carbonyl (C=O) carbon.

48. (Previously presented) The method of claim 45 wherein within R_2 the substituents

are polar and are selected from the group consisting of: hydroxy, oxo, epoxy, halogen, amino,

cyano and azido.

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49. (Previously presented) The method of claim 45 wherein within R₂ the substituents are hydrogen bond acceptors and are selected from the group consisting of: hydroxy, oxo, epoxy, amino, evano and azido.

- 50. (Previously presented) The method of claim 45 wherein within R₂ the substituents are selected from the group consisting of: hydroxy, oxo and epoxy.
- (Previously presented) A method for control of unwanted nematodes, the method comprising administering to a vertebrate, plant, seed or soil a composition comprising:
- (a) an ester of a compound selected from the group consisting of: ricinoleic acid, ricinelaidic acid, 12-oxo-9(Z)-octadecenoic acid, 12-oxo-9(E)-octadecenoic acid, (12,13)-epoxytrans-9-octadecenoic acid and vernolic acid; and
 - (b) an aqueous surfactant.
- 52. (Previously presented) The method of claim 31 or claim 51 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, Span 20, Span 40, Span 80, Span 85, Tween 20, Tween 80, Tween 80, Tween 85, Triton X 100, Makon 10, Igepal CO 630, Brij 35, Brij 97, Tergitol TMN 6, Dowfax 3B2, Physan and Toximul TA 15.
- 53. (Previously presented) The method of claim 31 or claim 51 wherein the composition further comprises:
 - (c) a permeation enhancer.
- 54. (Previously presented) The method of claim 53 wherein the permeation enhancer is a cyclodextrin.

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55. (Previously presented) The method of claim 31 or claim 51 wherein the composition further comprises:

(c) a co-solvent.

 (Previously presented) The method of claim 55 wherein the co-solvent is selected from the group consisting of: isopropanol, acetone, 1,2-propanediol, a petroleum based-oil and a

mineral oil.

57. (Previously presented) The method of claim 31 or claim 51 further comprising a

nematicide selected from the group consisting of: avermectins, milbemycin, aldicarb, oxamyl,

fenamiphos, fosthiazate and metam sodium.

58. (Previously presented) The method of claim 31 or claim 51 further comprising an

inhibitor of oxidation.

59. (Previously presented) The method of claim 31 or claim 51 wherein the inhibitor of

oxidation is selected from the group consisting of: butylated hydroxyanisole (BHA) and

butylated hydroxytoluene (BHT).

60. (Previously presented) The method of claim 31 or claim 51 wherein the nematode

infects plants and the composition is applied to the soil or to plants.

61. (Previously presented) The method of claim 60 wherein the composition is applied

to soil before planting.

62. (Previously presented) The method of claim 60 wherein the composition is applied

to soil after planting.

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63. (Previously presented) The method of claim 60 wherein the composition is applied to soil using a drip system.

64. (Previously presented) The method of claim 60 wherein the composition is applied to soil using a drench system.

 (Previously presented) The method of claim 60 wherein the composition is applied to plant roots.

66. (Previously presented) The method of claim 60 wherein the composition is applied to seeds.

67. (Previously presented) The method of claim 31 or claim 51 wherein the nematode infects a vertebrate,

68. (Previously presented) The method of claim 67 wherein the vertebrate is a mammal.

69. (Previously presented) The method of claim 67 wherein the vertebrate is a bird.

70. (Previously presented) The method of claim 67 wherein the composition is administered to non-human mammal.

71. (Previously presented) The method of claim 67 wherein the composition is administered to a human.

72. (Previously presented) The method of claim 67 wherein the composition is formulated as a drench to be administered to a non-human vertebrate.

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73. (Previously presented) The method of claim 67 wherein the composition is formulated as an orally administered drug.

74. (Previously presented) The method of claim 67 wherein the composition is formulated as an injectable drug.

75-84. (Canceled)